

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : MICRO CABIN:KK

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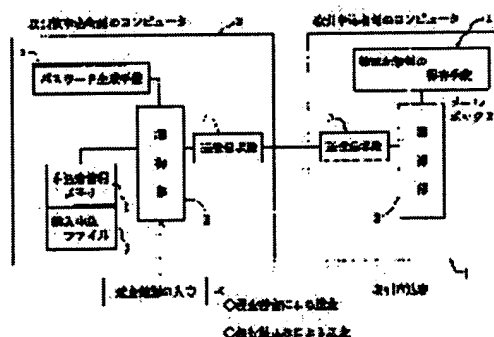
(72)Inventor : KATAYAMA YOSHITAKA

(54) AUTHENTICATION SYSTEM FOR TRANSACTION APPLICANT IN COMMUNICATION TRANSACTION

(57)Abstract:

PROBLEM TO BE SOLVED: To make an information user himself or herself specifiable by a simple means.

SOLUTION: Without performing inquiry to a credit card company or the authentication of another authentication organ or the like, an applicant itself is confirmed by authenticating information to be authenticated, transmitted and preserved in the computer 1 of a transaction applicant at the time of the communication access of purchase application performed from the computer 1 of the transaction applicant to the computer 2 of a person to whom a transaction is to be applied beforehand, a mail address inside a mail box and a password further at the time of the transmission of purchase information to be executed later and the individual is easily confirmed without using a complicated technical means.



LEGAL STATUS

[Date of request for examination]

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application converted registration]

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[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

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CLAIMS

[Claim(s)]

[Claim 1] Are in the communication link dealings which transmit and sell the information which a dealings proposer expects of the computer by the side of a dealings proposer by the communication line from the computer by the side of a proposer-ed [dealings], and it sets to the computer by the side of a proposer-ed [dealings]. It is in a dealings proposer's authentication system in the communication link dealings which attest that it is his computer. the computer of the point which transmits information -- a dealings proposer -- In access of the first time by the electronic mail from a computer to the computer by the side of a proposer-ed [dealings] by the side of a dealings proposer A password generation means to generate the attested information which receives the proposer information which consists of a dealings proposer's e-mail address, a name, the telephone number, and the address, and contains the password of a proposer proper based on this proposer information, The proposer information memory which is related and memorizes the attested information containing the password generated with the above-mentioned password generation means, and the proposer information corresponding to this, A dealings proposer's authentication system in the communication link dealings which come to have the transmitting means of the attested information which transmits the attested information containing the password generated with the above-mentioned password generation means by E-mail to the computer by the side of a dealings proposer, and is made to memorize in the computer by the side of a dealings proposer.

[Claim 2] The inside of the index of 1 which the computer by the side of a proposer-ed [dealings] has indicated on the homepage of the Internet beforehand in claim 1, or two or more selling information, A dealings proposer chooses and the computer by the side of a proposer-ed [dealings] receives purchase application access about the information which wishes to purchase from the computer by the side of a dealings proposer. The purchase application file which memorizes the contents of purchase application access in relation to the above-mentioned proposer information memory based on the password or proposer information transmitted from the computer by the side of a proposer with this purchase application access, It is based on purchase application access transmitted to a proposer's-ed [dealings] computer from the computer by the side of a dealings proposer. A dealings proposer's authentication system in the communication link dealings which come to have a message-sending means to transmit the message which asks for the remittance to the proposer-ed [dealings] of the purchase tariff of the selling information concerned from a proposer-ed [dealings] to the computer by the side of a dealings proposer.

[Claim 3] A dealings proposer's authentication system in the communication link dealings which receive the attested information which contains the password transmitted from the transmitting means of the attested information on the computer by the side of a proposer-ed [dealings] in claim 1, and become a mail box in the computer by the side of a dealings proposer as equipping the computer by the side of a dealings proposer with the attested information preservation means made to memorize and save.

[Claim 4] In the condition that the remittance of the purchase tariff of the selling information based on purchase application access from a dealings proposer in a proposer-ed [dealings] was checked in claim

2 After performing a telecommunications access between the computer by the side of a proposer-ed [dealings], and the computer by the side of a dealings proposer, While retrieving the attested information memorized and saved to the mail box in the computer by the side of a proposer and receiving the contents in the computer by the side of a proposer-ed The received this attested information and the attested information acquired from proposer information memory via a purchase application file are compared and collated. A dealings proposer's authentication system in the communication link dealings which become as having an information transmitting means to transmit selling information purchased from the computer by the side of a proposer-ed in the condition that these were in agreement by the computer by the side of a proposer.

[Claim 5] In the condition that the remittance of the purchase tariff of the selling information based on purchase application access from a dealings proposer in a proposer-ed [dealings] was checked in claim 2 After performing a telecommunications access between the computer by the side of a proposer-ed [dealings], and the computer by the side of a dealings proposer, While searching either of the proposer information which consists of a dealings proposer's e-mail address in the computer by the side of a proposer, the telephone number, and the address, or its all and receiving the contents in the computer by the side of a proposer-ed Either of the received this proposer information or its all, and the corresponding proposer information acquired from proposer information memory via a purchase file are compared and collated. A dealings proposer's authentication system in the communication link dealings which become as having an information transmitting means to transmit selling information purchased from the computer by the side of a proposer-ed in the condition that these were in agreement by the computer by the side of a proposer.

[Claim 6] In the condition that the remittance of the purchase tariff of the selling information based on purchase application access from a dealings proposer in a proposer-ed [- dealings] was checked in claim 2 The password which requests transmission of a password from the computer by the side of a proposer, and is received in this way after performing a telecommunications access between the computer by the side of a proposer-ed [dealings], and the computer by the side of a dealings proposer, The corresponding password obtained from proposer information memory via a purchase file is compared and collated. A dealings proposer's authentication system in the communication link dealings which become as having an information transmitting means to transmit selling information purchased from the computer by the side of a proposer-ed in the condition that these were in agreement by the computer by the side of a proposer.

[Claim 7] It is a dealings proposer's authentication system in the communication link dealings which are that to which it is in a dealings proposer's check system in the communication link dealings which come to have each information transmitting means indicated by claim 4 thru/or claim 6, and each information transmitting means performs a dealings proposer's authentication on the basis of the priority of claim 4, claim 5, and claim 6.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field belonging to invention] This invention relates to a dealings proposer's authentication system in suitable communication link dealings to use for multimedia services, such as information use service which uses the Internet, Book On Demand, and a game on demand.

[0002]

[Description of the Prior Art] Communication link dealings of the charges using recently, for example, the Internet, are conducted actively, and, generally the accounting approach by the credit card is enforced in such a scene. Namely, by this approach, the computer by the side of a proposer-ed [dealings] receives the dealings proposer (user) to whom access was given. In the condition that checked in the credit firm etc. after making the personal identification number transmit to the number list of a credit card, and it was in agreement with that into which a proposer's name, a personal identification number, etc. are registered beforehand as a result of the check It begins, and attests that the partner of access is him, and it is supposed that offer of the information (for example, company information, patent information, goods information, etc.) by the charge is performed to the computer by the side of [a proposer-ed / dealings / side to] a dealings proposer.

[0003] However, if it was in the above authentication methods, the accident which becomes him by the theft of a credit card, decode of a personal identification number transmitted, and is cleared up occurred, and in order to prevent such accident beforehand, recently, various proposals which prepare a limit in the service which the methods (for example, JP,7-250061,A etc.) which make the issue engine of the disinterested authentication ID intervene between a dealings proposer and a proposer-ed, and a proposer can use, such as a method (for example, JP,7-295926,A), were made.

[0004]

[Problem(s) to be Solved by the Invention] However, if it was in the above-mentioned conventional all directions type, the authentication format became complicated, and also it was made actual not to be used not much positively from having not agreed in the service idea of the information provider of providing many and unspecified users with useful information.

[0005] a means with simple this invention -- an information user -- it aims at performing his specification.

[0006]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, this invention from the computer by the side of a proposer-ed [dealings] to the computer by the side of a dealings proposer Transmit the information for which a dealings proposer wishes by the communication line, and are in the communication link dealings which sell and it sets to the computer by the side of a proposer-ed [dealings]. It is in a dealings proposer's authentication system in the communication link dealings which attest that it is his computer. the computer of the point which transmits information -- a dealings proposer -- In access of the first time by the electronic mail from a computer to the computer by the side of a proposer-ed [dealings] by the side of a dealings proposer A password generation means to generate

the attested information which receives the proposer information which consists of a dealings proposer's e-mail address, a name, the telephone number, and the address, and contains the password of a proposer proper based on this proposer information, The proposer information memory which is related and memorizes the attested information containing the password generated with the above-mentioned password generation means, and the proposer information corresponding to this, The transmitting means of the attested information which transmits the attested information containing the password generated with the above-mentioned password generation means by E-mail to the computer by the side of a dealings proposer, and is made to memorize in the computer by the side of a dealings proposer, ***** -- it considers as a dealings proposer's authentication system in communication link dealings.

[0007]

[Embodiment of the Invention] Drawing 1 thru/or drawing 6 start 1 operation gestalt of this invention, if a proposer-ed [dealings] has as shown in drawing 6 , the selling game information 1 thru/or n are displayed by the homepage of the Internet, and offer of these is enabled by making it download to a dealings proposer side. That is, game information which this computer requires from the computer by the side of an unspecified dealings proposer if it is in the computer by the side of a proposer-ed [dealings] is made into ready-for-sending ability by the Internet circuit, and if it was in a proposer's-ed [dealings] computer, after a dealings proposer's computer specifies whether you are those to whom the countervalue is beforehand paid about the game information concerned, it is saying making the game information concerned download.

[0008] That is, on the homepage of the Internet, the selling game information shown in drawing 3 is disclosed, and the title (1. sparrow RUSU, 2. flower card, 3. photograph puzzle, 4. photograph panel 15) of four game information is displayed on the proposer-ed [dealings] side in drawing 3 . The contents explanation and the price corresponding to each game information are displayed on the right-hand side part of each title, respectively, and when a user clicks the part of "explanation", he is trying to transmit the demonstration image of each game for [concerned] users from the computer by the side of a proposer-ed [dealings], when a user asks for still more detailed explanation.

[0009] In this way, when a user wishes to purchase about the index of each game displayed on the homepage of the Internet, a user decides to click the part of "purchase" displayed on the corresponding right-hand side part of game information. Then, if the computer of the user concerned will go into a proposer's-ed [dealings] computer 2 and two-way-communication condition (based on the Internet circuit) which are the establishment person of a homepage as a dealings proposer's computer 1 (refer to drawing 1) and is in the computer 2 by the side of a proposer-ed [dealings], he is trying to transmit the message screen of a remittance request shown in drawing 4 about the game information concerning purchase hope to the computer 1 by the side of a dealings proposer.

[0010] In the phase in which the computer of such a dealings proposer and a proposer-ed [dealings] entered mutually at the communication link condition, first, the control section 3 of the computer 2 by the side of a proposer-ed transmits a message so that input and transmission of the proposer information constituted from a transceiver means 4 by a dealings proposer's e-mail address, a name, the telephone number, and the address to the computer 1 by the side of a dealings proposer may be performed (refer to drawing 2). If a control section 9 displays this message on a screen and a dealings proposer has it based on the contents of the message received with the transceiver means 8 if it was in the computer 1 by the side of a dealings proposer, it is supposed that proposer information will be inputted responding to this message. A control section 9 turns the inputted proposer information to the transceiver means 4 of the computer 2 by the side of a proposer-ed [dealings] from the transceiver means 8, and he is trying to transmit.

[0011] If it is in the control section 3 of the computer 2 by the side of a proposer-ed [dealings], based on the received proposer information, it is supposed that the password X1 of the proposer proper concerned is generated with the password generation means 5. Moreover, the password generation means 5 generates the attested information Y1 on the proposer proper concerned enciphered with this. The attested information Y1 is memorized in the proposer information memory 6 in a computer 2 in relation to these with the proposer information (an e-mail address, a name, telephone number, address)

corresponding to these password X1 list. In the proposer information memory 6, the proposer information and the attested information according to each proposer are memorized, respectively (refer to drawing 2). Attested information Y 1 memorizes attested information Y 1 to the mail box which the computer which has, the preservation means 10, i.e., usual e-mail function, of attested information, holds, and he is trying to make it save it furthermore in password X1 list at the password X1 list received if it was transmitted towards the computer 1 by the side of a dealings proposer from the transceiver means 4 (refer to drawing 2) and was in the computer 1 by the side of a dealings proposer. Although only a password X1 can be known in appearance about the information received in the computer 1 by the side of a dealings proposer, since it is enciphered about other attested information Y1, if there is no key which only the computer 2 by the side of a proposer-ed [dealings] holds, it will be supposed here that it is impossible to analyze the contents.

[0012] In the dealings based on access of a purchase application of the first time by such dealings proposer, the purchase code based on the purchase game concerned is set up (refer to drawing 4), and if a dealings proposer has, based on the contents of the message shown in drawing 4, the purchase tariff of the game concerned is remitted to a proposer-ed [dealings] side by approaches, such as registered mail or bank transfer, (refer to drawing 1). With it, the purchase application file 17 memorizes in the computer 2 by the side of a proposer-ed [dealings] in relation to the application information memory 6 to which the contents (a purchase code, purchase application time, the contents of a purchase game, etc.) of this purchase application access correspond. If it is collectively filled in by the purchase code of the remittance concerned and a proposer-ed [dealings] has it on the occasion of remittance, the fact is inputted into the computer 2 by the side of a proposer-ed [dealings] with a purchase code in the phase where the remittance check was made (refer to drawing 1).

[0013] In this way, if the fact of a remittance check is inputted into the computer 2 by the side of a proposer-ed [dealings], the control section 3 of this computer 2 will perform access by the electronic mail to the computer 1 by the side of a dealings proposer, and authentication actuation of the computer 1 by the side of a dealings proposer will be carried out according to the sequence shown in drawing 5. That is, the computer 2 by the side of a proposer-ed searches the mail box in the computer 1 of the dealings proposer in a communication link condition, and receives the attested information Y1 memorized and saved at the preservation means 10 of attested information from this computer 1 to the computer 2 by the side of a proposer-ed. The computer 2 by the side of a proposer-ed compares and collates the attested information Y1 memorized by the proposer information memory 6 via the purchase application file 7 in the received attested information Y1 and the dealings concerned here. In the condition that these were in agreement, for the first time, the communications partner concerned is attested with the computer 1 of the dealings proposer who it applied for purchase and remitted truly, and it is supposed that the purchased game information concerned is transmitted to this computer 1.

[0014] However, when the mail box in the computer 1 of the dealings proposer in a communication link condition is searched and this attested information Y1 is not able to be checked, the proposer information (an e-mail address, telephone number, address, etc.) usually saved in this mail box is retrieved, and it receives from this computer 1 to the computer 2 by the side of a proposer-ed. The computer 2 by the side of a proposer-ed compares and collates the proposer information memorized by the proposer information memory 6 via the purchase application file 7 in the received proposer information and the dealings concerned by **. In the condition that these were in agreement, for the first time, the communications partner concerned is attested with the computer 1 of the dealings proposer who it applied for purchase and remitted truly, and it is supposed that the purchased game information concerned is transmitted to this computer 1.

[0015] However, when the mail box of the computer 1 of the dealings proposer in a communication link condition is searched and the proposer information which should usually be saved in this mail box is not able to be checked, the computer 2 by the side of a proposer-ed [dealings] demands transmission of a password from the computer 1 by the side of a dealings proposer, and if it is in the computer 2 by the side of a proposer-ed, it receives this password with the transceiver means 4. The computer 2 by the side of a proposer-ed compares and collates the received password and the password X1 memorized by the

proposer information memory 6 via the purchase application file 7 in the dealings concerned here. In the condition that these were in agreement, for the first time, the communications partner concerned is attested with the computer 1 of the dealings proposer who it applied for purchase and remitted truly, and it is supposed that the purchased game information concerned is transmitted to this computer 1.

[0016] however, the dealings proposer who it applied for purchase and remitted the communications partner concerned truly when authentication was not acquired, even if followed in order of authentication of a single string shown in such drawing 5 -- it does not attest with him, but he turns to a communications partner transmission of only the demonstration version of the purport whose authentication of his was not completed, and the game information concerned, and is trying to transmit

[0017] Thus, if it is in a dealings proposer's authentication system in the communication link dealings concerning the above-mentioned operation gestalt Without passing through authentication of enquiry to a credit card company, other certificate authorities, etc. In the case of the telecommunications access of the purchase application beforehand made from a dealings proposer's computer 1 to a proposer's-ed [dealings] computer 2 The mail address in the attested information which was transmitted to a dealings proposer's computer 1 and saved, or a mail box, attesting a password furthermore in the case of transmission of the purchase information carried out later -- a proposer -- without it can check with him and uses complicated technical means -- simple -- him -- since a check is possible, it is suitable to use for the comparatively cheap charged communications service performed by the Internet.

[0018]

[Example] Although the above-mentioned operation gestalt explained taking the case of the case where a telecommunications access is carried out between a dealings proposer and a dealings proposer by the Internet circuit, in addition even if it uses personal computer communications etc., it is supposed that the same thing is possible.

[0019] Moreover, although an e-mail address, names, the telephone numbers, and all the addresses are raised as proposer information in the above-mentioned operation gestalt, it is good also as it being sufficient for at least one of such information about proposer information, and adding other elements, such as a FAX number and age, to these further.

[0020]

[Effect of the Invention] a simple means -- information use -- it is effective in the ability to perform his specification.

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TECHNICAL FIELD

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PRIOR ART

[Description of the Prior Art] Communication link dealings of the charges using recently, for example, the Internet, are conducted actively, and, generally the accounting approach by the credit card is enforced in such a scene. Namely, by this approach, the computer by the side of a proposer-ed [dealings] receives the dealings proposer (user) to whom access was given. In the condition that checked in the credit firm etc. after making the personal identification number transmit to the number list of a credit card, and it was in agreement with that into which a proposer's name, a personal identification number, etc. are registered beforehand as a result of the check It begins, and attests that the partner of access is him, and it is supposed that offer of the information (for example, company information, patent information, goods information, etc.) by the charge is performed to the computer by the side of [a proposer-ed / dealings / side to] a dealings proposer.

[0003] However, if it was in the above authentication methods, the accident which becomes him by the theft of a credit card, decode of a personal identification number transmitted, and is cleared up occurred, and in order to prevent such accident beforehand, recently, various proposals which prepare a limit in the service which the methods (for example, JP,7-250061,A etc.) which make the issue engine of the disinterested authentication ID intervene between a dealings proposer and a proposer-ed, and a proposer can use, such as a method (for example, JP,7-295926,A), were made.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing the outline of the computer by the side of a proposer-ed [dealings], and the computer by the side of a proposer-ed [dealings].

[Drawing 2] It is the flow chart which shows the flow of operation in the computer by the side of a proposer-ed [based on a dealings proposer's first time access / dealings].

[Drawing 3] The computer by the side of a proposer-ed [dealings] is the monitor Fig. showing the index of the selling information disclosed by the homepage of the Internet.

[Drawing 4] It is the monitor Fig. showing the contents of the message which is transmitted to the computer by the side of [a proposer-ed / dealings / side to] a dealings proposer, and asks for remittance.

[Drawing 5] It is the flow chart which shows a dealings proposer's authentication actuation flow in the computer by the side of a proposer-ed [dealings].

[Drawing 6] It is the block diagram showing the outline of offer of the game information using the Internet circuit performed from the computer by the side of a proposer-ed [dealings] to the computer by the side of a dealings proposer.

[Description of Notations]

- 1 Computer by the side of Dealings Proposer
- 2 Computer of Proposer-ed [Dealings] Side **
- 3 Nine Control section
- 4 Eight Transceiver means
- 5 Password Generation Means
- 6 Proposer Information Memory
- 7 Purchase Application File
- 10 Preservation Means of Attested Information

[Translation done.]

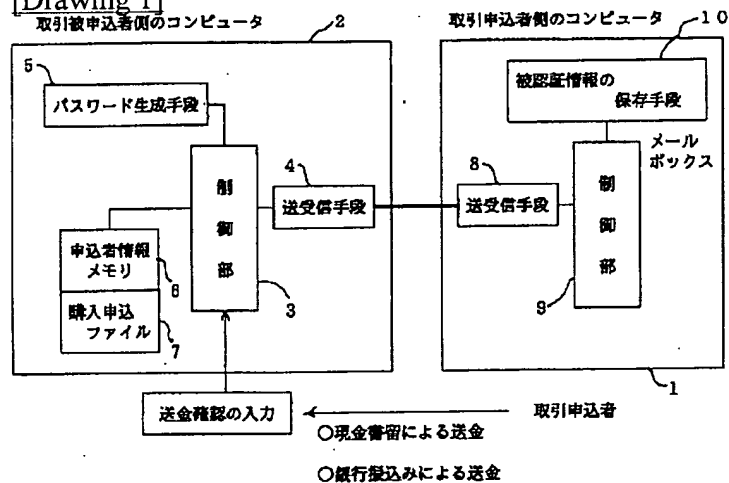
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DRAWINGS

[Drawing 1]



[Drawing 4]

タイトル	金額	ご購入コード
ご購入 ゲーム 雀ス (JANRUS)	2800円	XYF000

下記口座にご購入金額 をお振込み願うが、
または下記住所に現金書留でご送金下さい。ご送金の際、上記
ご購入コードを必ずご記入下さい。

お振込み先 ○○銀行四日市支店 普通○○○○○
マイクロキャビン株式会社

住所 三重県四日市市○○○ マイクロキャビン株式会社

[Drawing 2]

取引申込者側のコンピュータに電子メールアドレス・申込者の住所・氏名からなる申込者情報の入力を求める

電子メールアドレス：ENM〇〇〇
住所：三重県四日市市003-3-3
氏名：片山 〇〇

受信された申込者情報に基づき、パスワード生成手段にて申込者別にパスワードを含む被認証情報の作成を行なう

生成された被認証情報を申込者情報メモリに記憶する

被認証情報（外形的にはパスワードのみ）を申込者側のコンピュータに送信する

パスワード(※※※※)
暗号化された被認証情報
を含む

取引被申込者側コンピュータ

販売ゲーム情報 1
販売ゲーム情報 2
⋮
販売ゲーム情報 n

通信回線(インターネット)

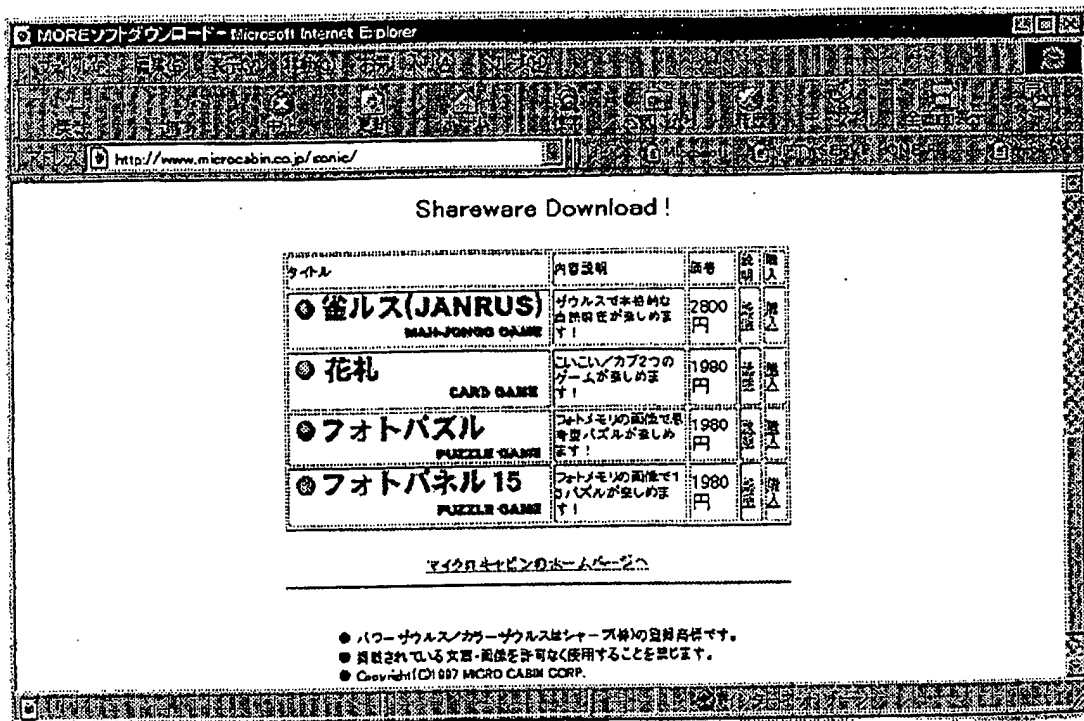
取引申込者側コンピュータ

ゲーム情報の提供→

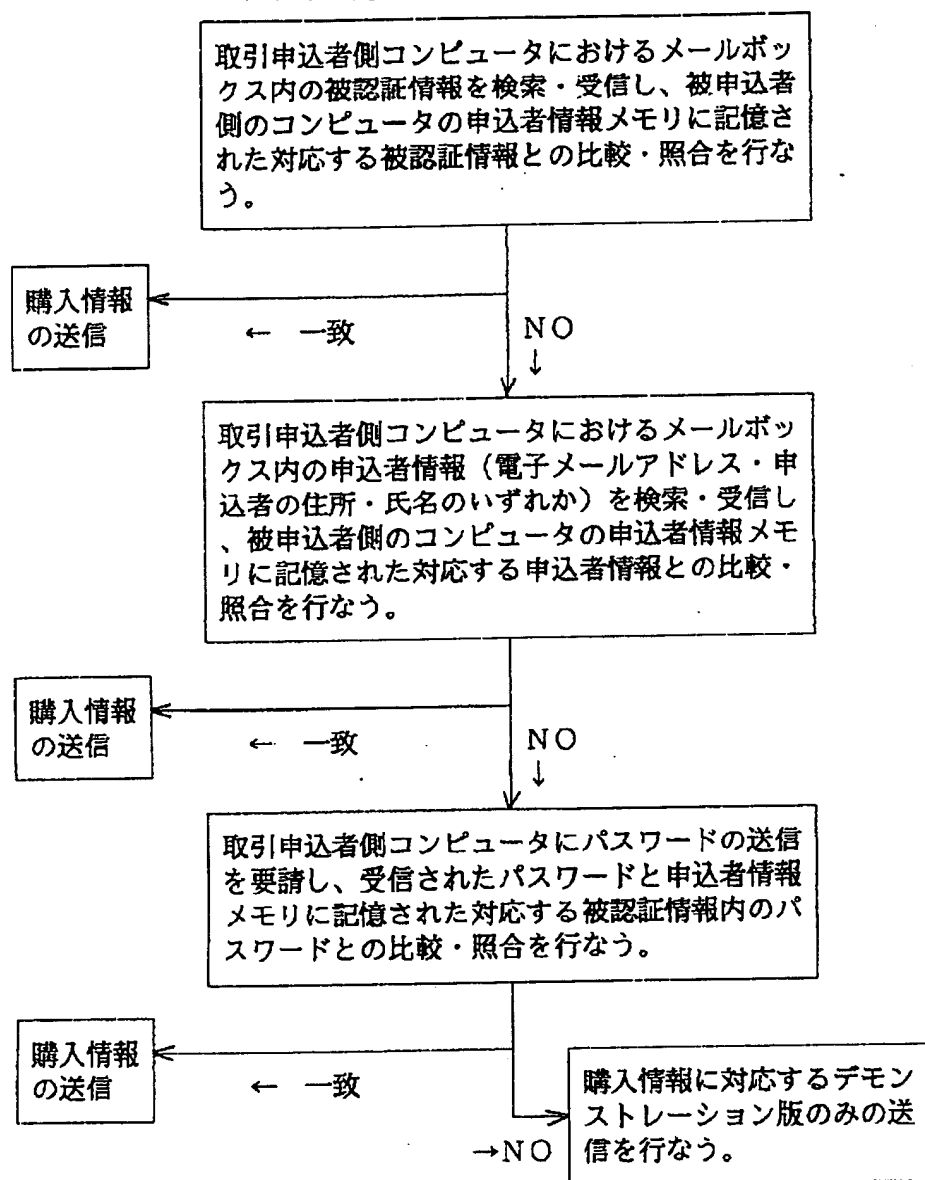
取引申込者側コンピュータ

取引申込者側コンピュータ

http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web_cgi_ejje



[Drawing 5]

取引被申込者側のコンピュータ
における認証動作フロー

[Translation done.]

(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開

特開平11-

(43) 公開日 平成11年(

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G 0 9 C 1/00	6 6 0	G 0 9 C 1/00	6 6 0 B

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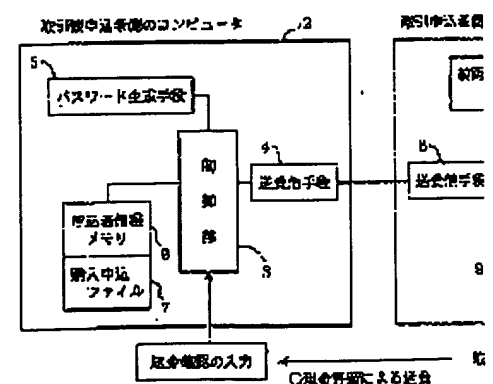
(74) 代理人 弁護士 山田 勝重 (外3)

(54) 【発明の名称】 通信取引における取引申込者の認証システム

(57) 【要約】

【課題】 簡易な手段により、情報利用者本人の特定を行うことを目的とする。

【解決手段】 クレジットカード会社への照会や他の認証機関などの認証を経ることなく、予め取引申込者のコンピュータ1から取引被申込者のコンピュータ2へ行われた購入申込の通信アクセスの際、取引申込者のコンピュータ1へ送信され、保存された被認証情報やメールボックス内のメールアドレス、さらにパスワードを、後日寄附される購入情報の送信の際に認証することで申込者



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【特許請求の範囲】

【請求項1】 取引被申込者側のコンピュータから取引申込者側のコンピュータに、通信回線により取引申込者が希望する情報を送信し、販売する通信取引にあって、取引被申込者側のコンピュータにおいて、情報を送信する先のコンピュータが取引申込者本人のコンピュータであることを認証する通信取引における取引申込者の認証システムにあって、

取引申込者側のコンピュータから取引被申込者側のコンピュータへの電子メールによる初回のアクセスにおいて、取引申込者の電子メールアドレス、氏名、電話番号、住所からなる申込者情報を受信し、該申込者情報に基づき申込者固有のパスワードを含む検証情報を生成するパスワード生成手段と、

上記パスワード生成手段にて生成されたパスワードを含む検証情報とこれに対応する申込者情報とを関連して記憶する申込者情報メモリと、

上記パスワード生成手段にて生成されたパスワードを含む検証情報を取引申込者側のコンピュータに電子メールにて送信し、取引申込者側のコンピュータにおいて記憶させる検証情報の送信手段と、

を備えてなる通信取引における取引申込者の認証システム。

【請求項2】 請求項1において、

取引被申込者側のコンピュータが予めインターネットのホームページ上で開示している一又は二以上の販売情報のインデックスのうち、取引申込者が選択し、購入を希望する情報に関する購入申込アクセスを取引被申込者側のコンピュータが取引申込者側のコンピュータから受信し、該購入申込アクセスとともに申込者側のコンピュータから送信されるパスワードあるいは申込者情報に基づき、購入申込アクセスの内容を上記申込者情報メモリに関連して記憶する購入申込ファイルと、

取引申込者側のコンピュータから取引被申込者のコンピュータへ送信される購入申込アクセスに基づき、当該販売情報の購入料金の取引被申込者への送金を求めるメッセージを取引被申込者から取引申込者側のコンピュータへ送信するメッセージ送信手段と、

を備えてなる通信取引における取引申込者の認証システム。

て、取引被申込者側のコンピュータと取引申込者側のコンピュータとの間で通信アクセスを行う。取引申込者側のコンピュータにおけるメールボックスに格納される検証情報を検索し、その内容を被申込者側のコンピュータにおいて受信するとともに、該検証情報と、購入申込ファイルを経由してサーバから得られる検証情報とを比較・照合一致した状態において被申込者側のコンピュータに購入された販売情報の送信手段を備えることとなる。取引申込者の認証システム。

【請求項5】 請求項2において、取引被申込者が取引申込者からの購入に基づく販売情報の購入料金の送金を確認するため、取引被申込者側のコンピュータと取引申込者側のコンピュータとの間で通信アクセスを行う。取引申込者側のコンピュータにおける取引申込者の電子メールアドレス、電話番号、住所からなる申込者情報あるいはそのすべてを検索し、その内容を被申込者側のコンピュータにおいて受信するとともに、該申込者情報のいずれか、あるいはそのすべてを経由して申込者情報メモリから得られる申込者情報とを比較・照合し、これらが一致した状態において被申込者側のコンピュータから申込者側のコンピュータに購入された販売情報の送信を行う。取引申込者の認証システム。

【請求項6】 請求項2において、取引被申込者が取引申込者からの購入に基づく販売情報の購入料金の送金を確認するため、取引被申込者側のコンピュータと取引申込者側のコンピュータとの間で通信アクセスを行う。取引被申込者側のコンピュータにパスワードの送信を受け付けられるパスワードと、購入申込者情報メモリから得られる対応するパスワードとを比較・照合し、これらが一致した状態において被申込者側のコンピュータから申込者側のコンピュータに購入された販売情報の送信を行う。取引申込者の認証システム。

【請求項7】 請求項4ないし請求項6に

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るのに好適な通信取引における取引申込者の認証システムに関する。

【0002】

【従来の技術】最近、例えばインターネットを用いての有料の通信取引が活発に行われており、こうした場面においては一般にクレジットカードによる課金方法が実施されている。すなわち、この方法では取引被申込者側のコンピュータが、アクセスが行われた取引申込者（ユーザ）に対し、クレジットカードの番号並びに暗証番号を送信させた上でクレジット会社等に確認し、確認の結果、申込者の氏名や暗証番号などが予め登録されているものと一致した状態において、始めてアクセスの相手が本人であることを認証し、有料による情報（例えば企業情報、特許情報、商品情報等）の提供を取引被申込者側から取引申込者側のコンピュータに対し行うこととしている。

【0003】しかしながら、上記のような認証方式にあっては、クレジットカードの盗難や送信される暗証番号の解読等により本人になりすます事故が発生し、最近ではこうした事故を未然に防止するため、例えば取引申込者と被申込者との間に第三者的な認証IDの発行機関を介在させる方式（例えば特開平7-250061号等）や申込者の利用できるサービスに制限を設ける方式（例えば特開平7-295926号）など、様々な提案がなされていた。

【0004】

【発明が解決しようとする課題】しかしながら、上記従来の各方式にあっては、認証形式が複雑になる他、不特定多数のユーザに有益な情報を提供するという情報提供者のサービス理念に合致していないことから、あまり積極的に利用されていないのが現実とされていた。

【0005】本発明は簡易な手段により、情報利用者本人の特定を行うことを目的とするものである。

【0006】

【課題を解決するための手段】上記目的を達成するため、本発明は取引被申込者側のコンピュータから取引申込者側のコンピュータに、通信回線により取引申込者が希望する情報を送信し、販売する通信取引にあって、取引被申込者側のコンピュータにおいて、情報を送信する側のコンピュータが取引申込者本人のコンピュータであ

たパスワードを含む被認証情報を取引申込者側のコンピュータに電子メールにて送信し、取引申込者側のコンピュータにおいて記憶させる被認証情報の記憶を有する通信取引における取引申込者側としたものである。

【0007】

【発明の実施の形態】図1ないし図6は形態に係り、図6に示すように取引被申込者側のコンピュータのホームページで販売ゲーム情報を表示し、取引申込者側に対して求めることでこれらを提供可能としている。取引被申込者側のコンピュータにあっては、取引被申込者側のコンピュータに対し、該コンピュータのゲーム情報をインターネット回線によっており、取引被申込者側のコンピュータに、取引被申込者側のコンピュータが予め当該ゲーム情報の対価を支払われる者かどうかを特定したゲーム情報をダウンロードさせることとしてい

【0008】すなわち、取引被申込者側のコンピュータのホームページ上で例えばゲーム情報を開示しており、図3においてゲーム情報のタイトル（1. 雀ルス、2. 花パズル、4. フォトパネル15）を表示タイトルの右側部分にはそれぞれ各ゲームの内容説明や価格が表示されており、さらにユーザが求める場合は「説明」の部分をクリックすることにより、各ゲームのデモンストラ像を取引被申込者側のコンピュータから送信するようにしている。

【0009】こうしてインターネットのに表示された各ゲームのインデックスに購入を希望する場合、ユーザは対応する側部分に表示された「購入」の部分をクリックすると当該ユーザのコンピュータとしてホームページ取引被申込者側のコンピュータ2と相互通信回線に基づく）に入ることとなる。取引被申込者側のコンピュータ2は取引申込者側のコンピュータ1に対し、購入ゲーム情報に関し、図4に示す送金依頼の

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し、取引申込者にとっては該メッセージに答えて申込者情報を入力することとしている。制御部9は入力された申込者情報を送受信手段8から取引被申込者側のコンピュータ2の送受信手段4に向けて送信するようにしている。

【0011】取引被申込者側のコンピュータ2の制御部3にあっては、受信された申込者情報に基づき、パスワード生成手段5にて当該申込者固有のパスワードX1を生成することとしている。またパスワード生成手段5は、これとともに暗号化された当該申込者固有の被認証情報Y1を生成する。これらパスワードX1並びに被認証情報Y1は、対応する申込者情報（電子メールアドレス、氏名、電話番号、住所）とともに、これらに関連してコンピュータ2内の申込者情報メモリ6において記憶される。申込者情報メモリ6においては各申込者別の申込者情報や被認証情報がそれぞれ記憶される（図2参照）。さらにパスワードX1並びに被認証情報Y1は、送受信手段4から取引申込者側のコンピュータ1に向けて送信され（図2参照）、取引申込者側のコンピュータ1にあっては受信されたパスワードX1並びに被認証情報Y1を被認証情報の保存手段10、すなわち通常のメール機能を有するコンピュータが保持するメールボックスに記憶し、保存させるようにしている。ここで取引申込者側のコンピュータ1においては、受信された情報に関し、外形的にはパスワードX1のみを知ることができるが、他の被認証情報Y1に関しては暗号化されているため、取引被申込者側のコンピュータ2のみが保有するキーがなければその内容を解析することが不可能とされる。

【0012】こうした取引申込者による初回の購入申込のアクセスに基づく取引においては、当該購入ゲームに基づくご購入コードが設定され（図4参照）、取引申込者にとっては図4に示すメッセージの内容に基づき、当該ゲームの購入料金を現金書留郵便あるいは銀行振込などの方法により取引被申込者側に送金するようにする（図1参照）。それとともに、取引被申込者側のコンピュータ2においては、該購入申込アクセスの内容（ご購入コード、購入申込日時、購入ゲーム内容等）が対応する申込情報メモリ6に関連して購入申込ファイル17に記憶される。送金に際しては当該送金のご購入コードが

のメールボックスの検索を行い、被認証情報Y1に記憶・保存された被認証情報Y1から被申込者側のコンピュータ2にて被申込者側のコンピュータ2は受信され、Y1と当該取引における購入申込ファイル7、申込者情報メモリ6に記憶される被認証情報・照合し、これらが一致した状態において通信相手を購入を申込まれ、かつ真に送金申込者のコンピュータ1と認証し、該ご購入されたゲーム情報の送信を実施している。

【0014】しかし通信状態にある取引コンピュータ1内のメールボックスの検索を行い被認証情報Y1が確認できなかったときにボックス内に通常保存されている申込者メールアドレス、電話番号、住所等）を検索して被申込者側のコンピュータ2にて被申込者側のコンピュータ2は受信され、と当該取引における購入申込ファイル7、申込者情報メモリ6に記憶される申込者情報し、これらが一致した状態において初め購入を申込まれ、かつ真に送金を行うコンピュータ1と認証し、該コンピュータ1に記憶されたゲーム情報の送信を実施すること

【0015】しかし通信状態にある取引コンピュータ1のメールボックスの検索を行うメールボックス内に通常保存されている被認証情報Y1が確認できなかったときには、取引被申込者側のコンピュータ2は取引申込者側のコンピュータ1からの購入の送信を要請し、被申込者側のコンピュータ1にあっては該パスワードを送受信手段4にて送金する。ここで被申込者側のコンピュータ1のパスワードと当該取引における購入申込理由して申込者情報メモリ6に記憶されるパスワードとを比較・照合し、これらが一致した状態において当該通信相手を購入を申込まれ、かつ真に取引申込者のコンピュータ1と認証し、該ご購入されたゲーム情報の送信としてしている。

【0016】しかし、こうした図5に示

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セスの際、取引申込者のコンピュータ1へ送信され、保存された検証情報やメールボックス内のメールアドレス、さらにパスワードを、後日実施される購入情報の送信の際に認証することで申込者本人と確認することができ、複雑な技術的手段を用いることなく簡易に本人確認ができるのでインターネットで行われる比較的安価な有料情報提供サービスに用いるのに好適である。

【0018】

【実施例】上記実施形態ではインターネット回線により取引申込者と取引申込者間で通信アクセスする場合を例

として説明したが、この他パソコン通信などを用いても同様なことが可能とされる。

【0019】また、上記実施形態においては申込者情報として電子メールアドレス、氏名、電話番号、住所のすべてを上げているが、申込者情報についてはこれらの情報のうちのいずれか一つでも足り、さらにこれらにFAX番号、年齢等他の要素を加えることとしてもよい。

【0020】

【発明の効果】簡易な手段により、情報利用本人の特定を行うことができるという効果がある。

【図面の簡単な説明】

【図1】取引申込者側のコンピュータと取引申込者側のコンピュータの概要を示すブロック図である。

【図2】取引申込者の初回アクセスに基づく取引申込*

*者側のコンピュータにおける動作フローチャートである。

【図3】取引申込者側のコンピュータのホームページで開示する販売情報の示すモニタ図である。

【図4】取引申込者側から取引申込者に対し送信され、送金を求めるメッセージモニタ図である。

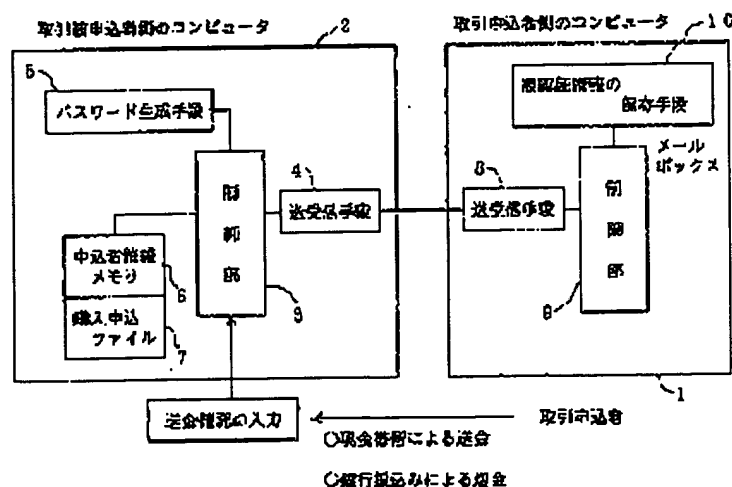
【図5】取引申込者側のコンピュータの認証動作フローを示すフローチャートである。

【図6】取引申込者側のコンピュータ側のコンピュータに対して行うインターネットのゲーム情報の提供の概要を示すブロック図である。

【符号の説明】

- | | |
|-----|---------------|
| 1 | 取引申込者側のコンピュータ |
| 2 | 取引申込者側のコンピュータ |
| 3、9 | 制御部 |
| 4、8 | 送受信手段 |
| 5 | パスワード生成手段 |
| 6 | 申込者情報メモリ |
| 7 | 購入申込ファイル |
| 10 | 検証情報の保存手段 |

【図1】



【図4】

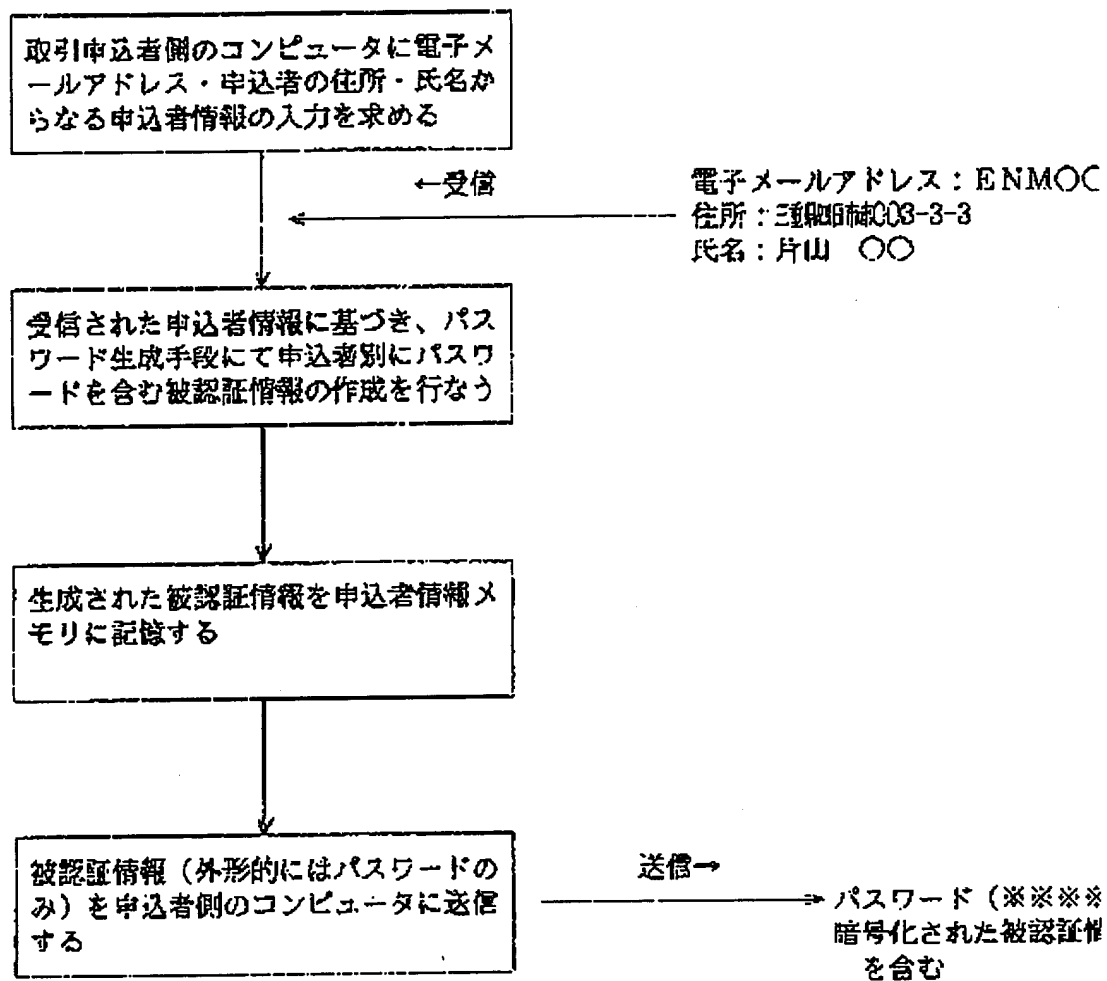
タイトル	金額
ご購入ゲーム	管ルス(JANRUS) 2800円
下記口座にご入金ください。振替口座番号 〇〇〇〇	
または下記宛先に現金書留でご送金下さい。	
ご購入コードを必ずご記入下さい。	
お振込み先	〇〇銀行四日市支店 普通〇〇 マイクローキャビ
宛先	三井住友銀行四日市支店 〇〇〇〇 マイクローキャビ

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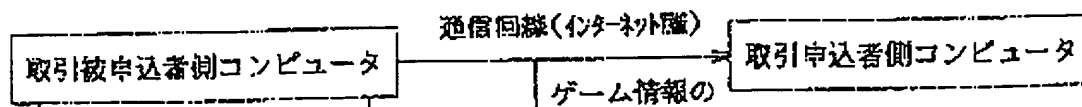
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【図2】

初回のアクセスによる
取引被申込者側のコンピュータにおける動作フロー



【図6】

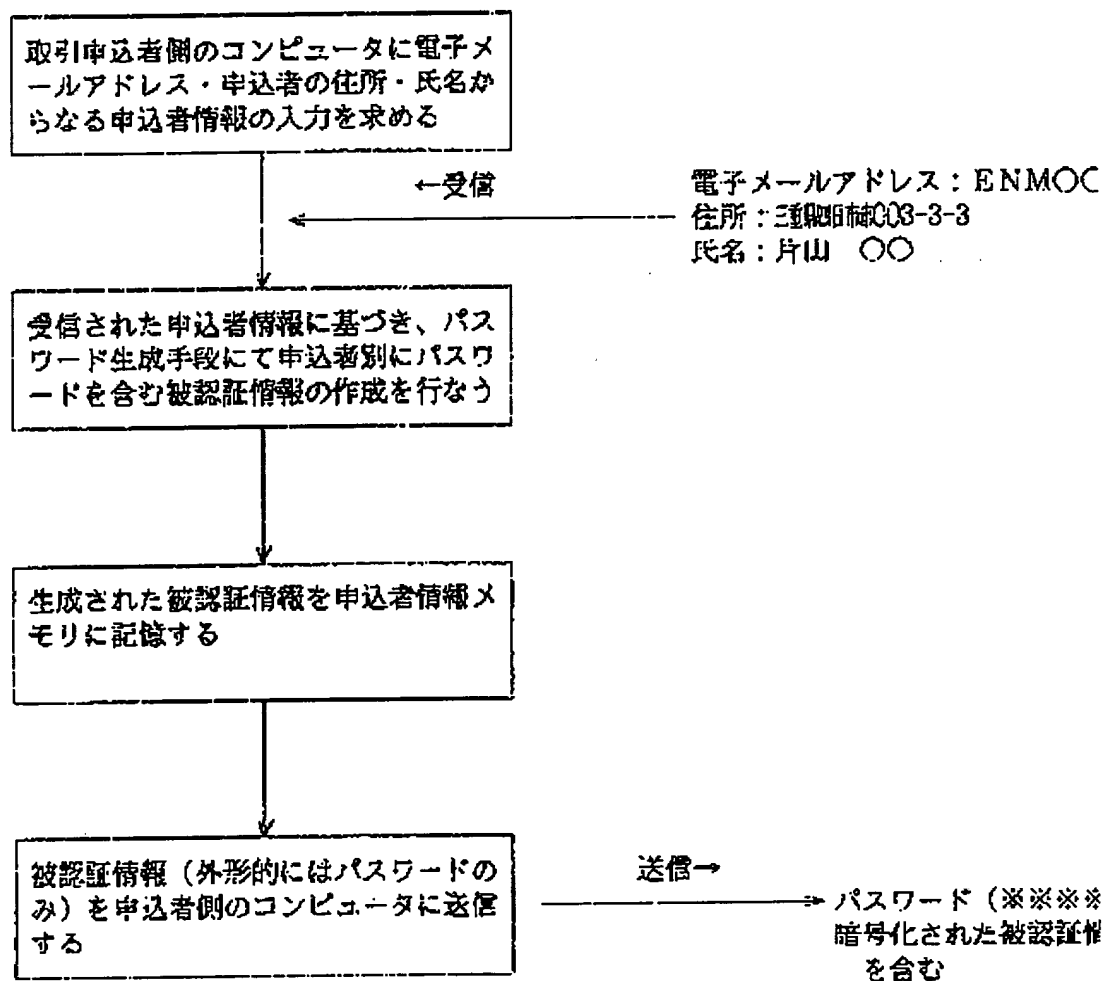


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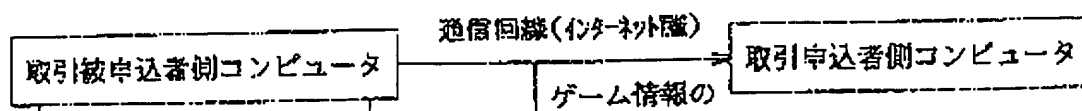
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【図2】

初回のアクセスによる
取引被申込者側のコンピュータにおける動作フロー



【図6】



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【図3】

Shareware Download !

タイトル	内容説明	価格	種別
◎ 雀ルス(JANRUS) SHAKU-PACHINKO JANRUS	パチンコで遊ぶ時間 を無駄にせず！	2800 円	パチンコ
◎ 花札 CARO GAME	2人/3人/4人の ゲームが楽しめる！	1000 円	パズル
◎ フォトパズル PUZZLE GAME	写真1枚のピースを 全てパズルが楽しめる！	990 円	パズル
◎ フォトパズル 15 PUZZLE GAME	写真1枚のピースを 全てパズルが楽しめる！	1500 円	パズル

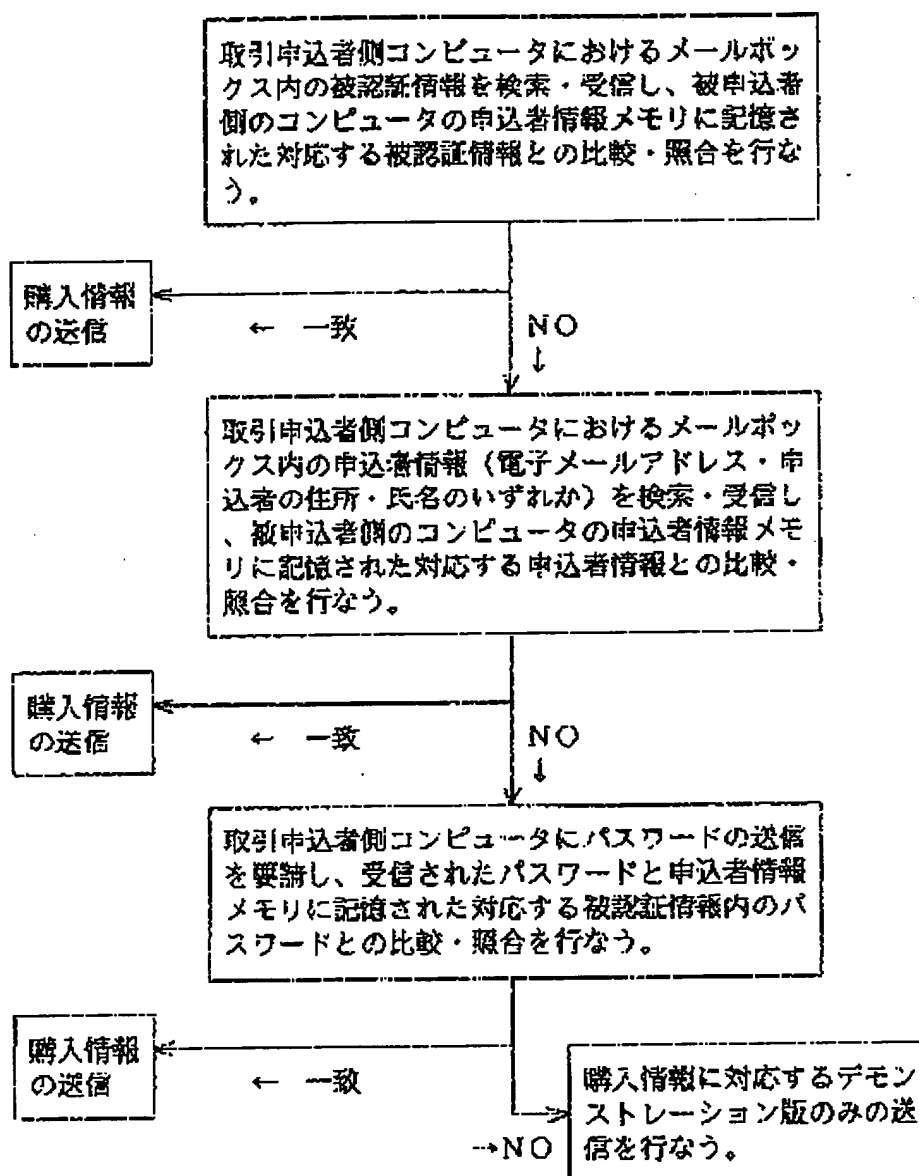
マイクロキャビン株式会社

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【図5】

取引被申込者側のコンピュータ
における認証動作フロー

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